IN THE CLAIMS

Claims 1-6 (Cancelled).

7. (Currently Amended) A method of manufacturing a solid-electrolyte battery comprising:

forming solid-electrolyte layers a first set of gel-electrolyte layers on both sides of a positive electrode collector;

forming solid-electrolyte layers a second set of gel-electrolyte layers on both sides of a negative electrode collector;

forming a positive electrode comprising the first set of gel-electrolyte layers on both sides of the positive electrode collector;

forming a negative electrode comprising the second set of gel-electrolyte layers on both sides of a negative electrode collector;

laminating said positive electrode and said negative electrode such that <u>one of the first set</u>

of gel-electrolyte layers and one of the second set of gel-electrolyte layers one of said

solid electrolyte layers formed on said positive electrode and one of said solid electrolyte

layers formed on said negative electrode face each other;

winding said positive electrode and said negative electrode such that another one of the first set of gel-electrolyte layers and one of the second set of gel-electrolyte layers of said solid-electrolyte layers formed on said positive electrode and another one of said solid-electrolyte layers formed on said negative electrode face each other; and subjecting said wound electrodes to heat treatment so that each of the first set of gel-electrode layers and the one of the second set of gel-electrolyte layers facing each other

said solid-electrolyte layers formed on said positive electrode and said solid-electrolyte layers formed on said negative electrode are integrated with each other into one continuous seamless layer.

wherein,

wherein said gel-electrolyte layers comprise an electrolyte salt, a nonaqueous solvent and a matrix polymer.

- 8-9. (Canceled).
- 10. (Original) The method of claim 7, wherein said wound electrodes are subjected to heat treatment for ten minutes.
- 11. (Currently amended) The method of claim § 7, wherein said solid-electrolyte gelelectrolyte layers comprise one of LiPF₆, LiAsF₆, LiBF₄, LiClO₄, LiCF₃SO₃, Li(CF₃SO₂)₂N and LiC₄F₉SO₃ or their mixture.
- 12. (Currently amended) The method of claim & 7, wherein said matrix polymer is any one of polyacrylonitrile, polyyvinyldene fluroide, polytetrafluoroethylene, polyhexafluoropropylene, polyethylene oxide, polypropylene oxide, polyphosphagen, polysiloxane, polyvinyl acetate, polyvinyl alcohol, polymethyl methacryate, polyacrylic acid, polymethacrylic acid, styrene-butadiene rubber, nitrile-butadiene rubber, polystyrene or polycarbonate.

- 13. (Currently amended) The method of claim $\frac{8}{7}$, wherein said swelling solvent is any one of the following nonaqueous solvent[:] is selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate, γ -butylolactone, γ -valerolactone, diethoxyethane, tetrahydrofuran, 2-methyltetrahydrofuran, 1, 3-dioxane, methyl acetate, methyl propionate, dimethylcarbonate, diethyl carbonate or ethylmethyl carbonate or their mixture.
- 14. (Previously Presented) The method of claim 7 further comprising inserting said wound electrodes into a film pack.
- 15. (Currently amended) The method of claim 14 further comprising subjecting said film pack to heat treatment so that said solid-electrolyte gel-electrolyte layers formed on said positive electrode and said solid-electrolyte gel-electrolyte layers formed on said negative electrode are integrated with each other into one continuous seamless layer.
 - 16. (Canceled)
- 17. (Currently Amended) A method of manufacturing a solid-electrolyte battery comprising:

forming solid-electrolyte gel-electrolyte layers on both sides of a positive electrode and a negative electrode, wherein one of said solid-electrolyte layers formed on said positive electrode and one of said solid-electrolyte gel-electrolyte layers formed on said negative electrode face each other;

winding said positive electrode and said negative electrode after pressing; and

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subjecting said wound electrodes to heat treatment at about 70°C for about 10 minutes so that said solid-electrolyte gel-electrolyte layers formed on said positive electrode and said solid-electrolyte gel-electrolyte layers formed on said negative electrode are integrated with each other into one continuous seamless layer,

wherein,

wherein said gel-electrolyte layers comprise an electrolyte salt, a nonaqueous solvent and a matrix polymer.